

TM 11-2300-351-14&P-22

TECHNICAL MANUAL

**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE MANUAL, INCLUDING
REPAIR PARTS AND SPECIAL TOOLS LISTS
FOR**

**INSTALLATION KIT, ELECTRONIC EQUIPMENT
MK-1234/GRC**

(NSN 5820-00-450-6804)

**IN TRUCK UTILITY, 1/4 TON, 4X4, M151,
M151A1 OR M151A2 FOR RADIO SETS
AN/GRC-125, AN/GRC-160, AN/VRC-46,
AN/VRC-53 AND AN/VRC-64**

JUNE 1978

TECHNICAL MANUAL

No. 11-2300-351-14&P-22

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 12 June 1978**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT
MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS
FOR****INSTALLATION KIT, ELECTRONIC EQUIPMENT MK-1234/GRC****(NSN 5820-00-450-6804)****IN TRUCK UTILITY, ¼ TON, 4X4, M151, M151A OR M151A2 FOR RADIO SETS
AN/GRC-125, AN/GRC-160, AN/VRC-46, AN/VRC-53 AND AN/VRC-64**

Current as of 31 November 1977

REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028-2 (Test) located in the back of the manual. Simply tear out the self-addressed form, fill it out as shown on the sample, fold it where shown, and drop it in the mail.

If there are no blank DA Form 2028-2 (Test) in the back of your manual, use the standard DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward to the Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703.

In either case a reply will be furnished direct to you.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual provides instructions for installing Installation Kit, Electronic Equipment MK-1234/GRC (kit) (NSN 5820-00-450-6804) in Truck, Utility, ¼ Ton, 4X4, M151, M151A1 or M151A2. This installation allows the mounting of Radio Set AN/GRC-125, AN/GRC-160, AN/VRC-46, AN/VRC-53, or AN/VRC-64.

1-2. Indexes of Publications

a. *DA Pam 310-4*. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. *DA Pam 310-7*. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

1-3. Forms and Records

a. *Reports of Maintenance and Unsatisfactory Equipment*. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. *Report of Packaging and Handling Deficiencies*. Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 700-58/NAV-SUPINST 4030.29/AFR 71-13/MCO P4030.29A, and DLAR 4145.8.

c. *Discrepancy in Shipment Report (DISREP) (SF*

361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33B/AFR 75-18/MCO P4610.19C, and DLAR 4500.15.

1-4. Administrative Storage

When placing or removing MK-1234/GRC Installation Kit into or from administrative storage, perform the steps in tables 3-1 and 3-2.

1-5. Destruction of Army Electronics Materiel

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

1-6. Reporting Equipment Improvement Recommendations (EIR's)

EIR's will be prepared using DA Form 2407, Maintenance Request. Instructions for preparing EIR's are provided in TM 38-750, The Army Maintenance Management System. EIR's should be mailed direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

1-7. Disposition of Parts

Dispose of unused parts in accordance with DOD 4160.21-M and AR 755-2.

Section II. DESCRIPTION

1-8. Purpose and Use

The MK-1234/GRC is a grouping of items used to modify Truck, Utility ¼ Ton, 4X4, M151, M151A1 or M151A2 for the installation of various radio sets.

1-9. Description of Components

The installation kit is made up of the components listed below. Attaching hardware is enclosed in a bag and fastened to the item it attaches.

a. *Mounting MT-1029/VRC* (fig. 1-1). Mounting MT-1029/VRC is a shock-mounted base unit for Radio Set AN/GRC-125, AN/GRC-160, AN/VRC-46, AN/VRC-53 or AN/VRC-64.

b. *Cables* (fig. B-1). Cables are used to carry signals and power for radio sets (a above). All cables have been manufactured in specific lengths with the correct connectors attached to them.

c. *Mounting Hardware*. Brackets, assemblies, nuts, bolts, etc.

d. *Microphone*. Dynamic Microphone M-80/GR.

e. *Headset*. Headset Electrical H-140(*)/GR.

f. *Antenna Mount Assembly* (fig. B-1). The antenna mount assembly consists of four sections of prefabricated material which, when assembled, form the antenna mount assembly. The antenna mount assembly is mounted on the vehicle as shown in figure 1-2.

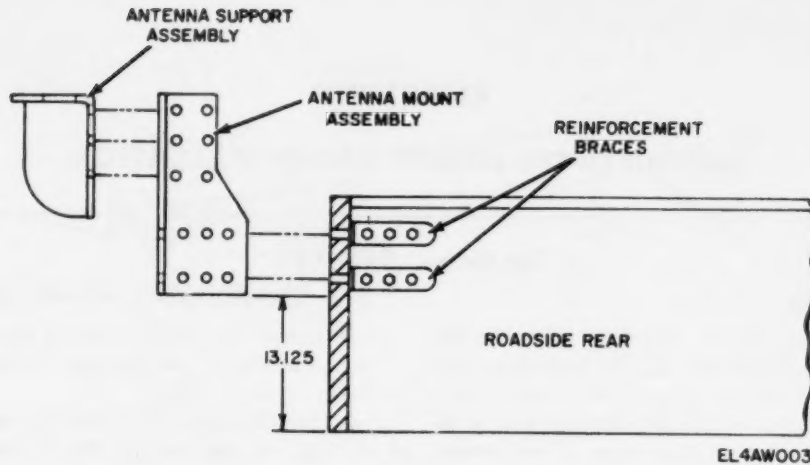


Figure 2-1. Installation of antenna support assembly.

NOTE

When antenna mount is placed in lower position, omit step in (5) above. See alternate location (fig. 1-2) for upper and lower positions.

(6) When using Antenna AT-912/VRC, fasten support bracket (4) to angle brace (3).

(7) When using Antenna AT-1729/VRC, fasten support bracket (5) to angle brace (3).

(8) If it was necessary to remove the reflector from the vehicle, position it directly below the mount assembly, and mark hole positions. Drill two $\frac{1}{8}$ -inch holes and remount reflector.

b. Installation of Mounting MT-1029/VRC and Cable Assembly CX-4720/VRC (fig. 2-2, 2-3, and B-1).

(1) On the roadside sponson, position the support bracket (6) 19 inches from rear of vehicle to rear of bracket. With bottom angle of bracket (6) tight against sponson, mark holes for drilling.

(2) Drill six $\frac{1}{8}$ -inch holes at points marked.

(3) Remove the five cap screws and two grounding straps from top tray (7) of Mounting MT-1029/VRC and remove top tray.

(4) Secure lower tray (8) of MT-1029/VRC to support bracket assembly (6) using hardware supplied.

(5) Position assembly over holes drilled in (2) above.

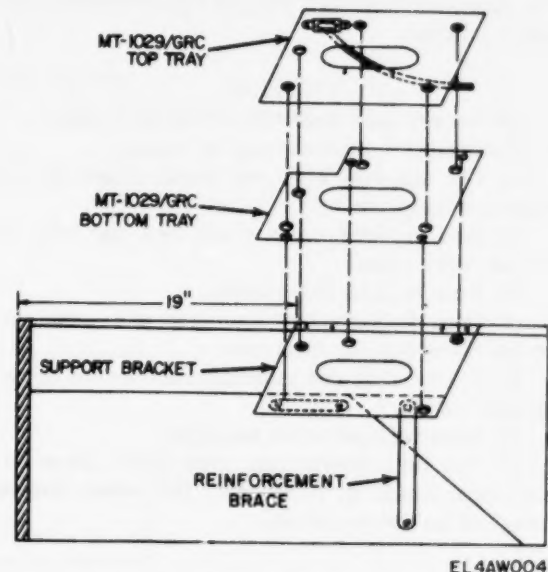
(6) Using reinforcement braces (9 and 10), secure the assembly to the sponson.

(7) At forward side of support bracket (end closest to driver), place reinforcement brace (11) and mark hole position on sponson.

(8) Drill one $\frac{1}{8}$ -inch hole at point marked.

(9) Fasten reinforcement brace to support bracket and to sponson.

(10) Connect Cable Assembly CX-4720/VRC (12), with attached plug to J21 on MT-1029/VRC. Place



EL 4AW004

Figure 2-2. Installation of mounting MT-1029/VRC.

cable between upper and lower tray and fasten upper tray to lower tray.

(11) Remove one knockout plug beside tool compartment and one knockout plug from between tool compartment and battery compartment.

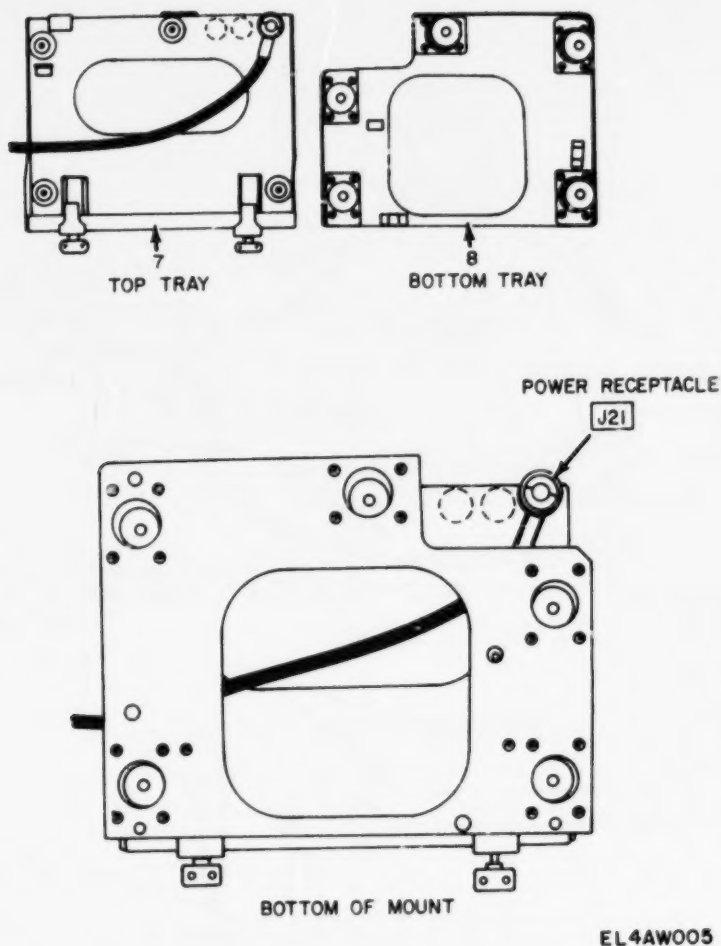
(12) Insert two grommets (13) into holes.

(13) Thread power cable through grommets.

(14) At battery end of power cable, connect two terminal lugs (14); one lug to red and white wires and other lug to green and black wires.

(15) Position cable as shown in figure 2-3, and secure by drilling (where noted) $\frac{1}{8}$ -inch holes and fastening with cable clamps supplied (fig. 2-4).

(16) Using guard assembly (15) as shown on figure 2-4, as template drill ten $\frac{1}{8}$ -inch holes. Fasten with hardware supplied.



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Figure 2-3. Installation of Cable Assembly CX-4720/VRC.

(17) Attach power cable as shown in figure 2-5.

c. *Audio Accessories Support Kit* (fig. 2-6).

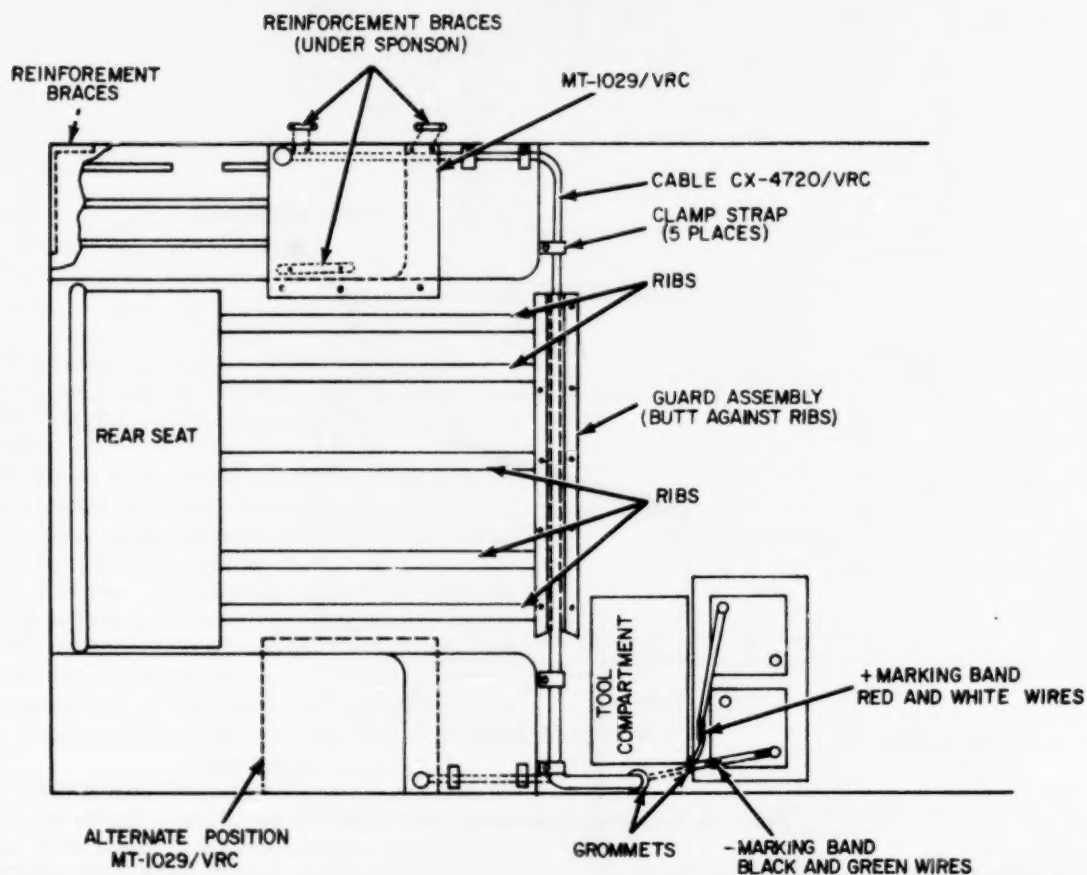
(1) Using microphone hook (16, fig. B-1) as template mark points for drilling.

(2) Drill two $\frac{1}{4}$ -inch holes at points marked and fasten with hardware supplied. Hook can be positioned at discretion of user.

d. After complete installation of the MK-1234/

GRC, recheck tightness of all bolts, nuts, and screws. Touchup paint all bare spots where holes were drilled. Refer to TB 43-0118 for painting instructions.

e. Items 3, 17, 18, 19, 20, 21, and 23, figure B-1, when not in operation will be stored in accordance with organizational procedures, or disposed of in accordance with DOD 4160-.21-M and AR 755-2.



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Figure 2-4. Securing Cable Assembly CX-4720/VRC.

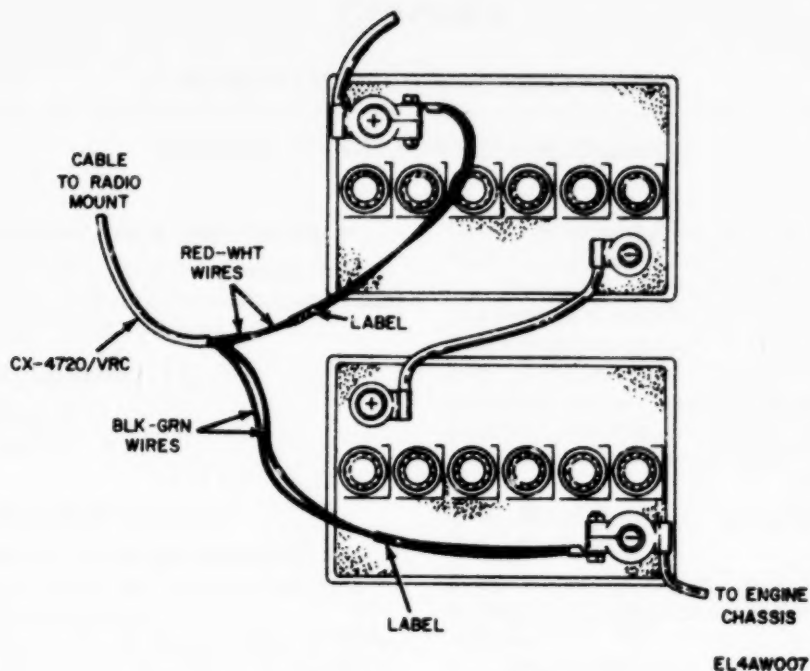


Figure 2-5. Attaching power cable to battery.

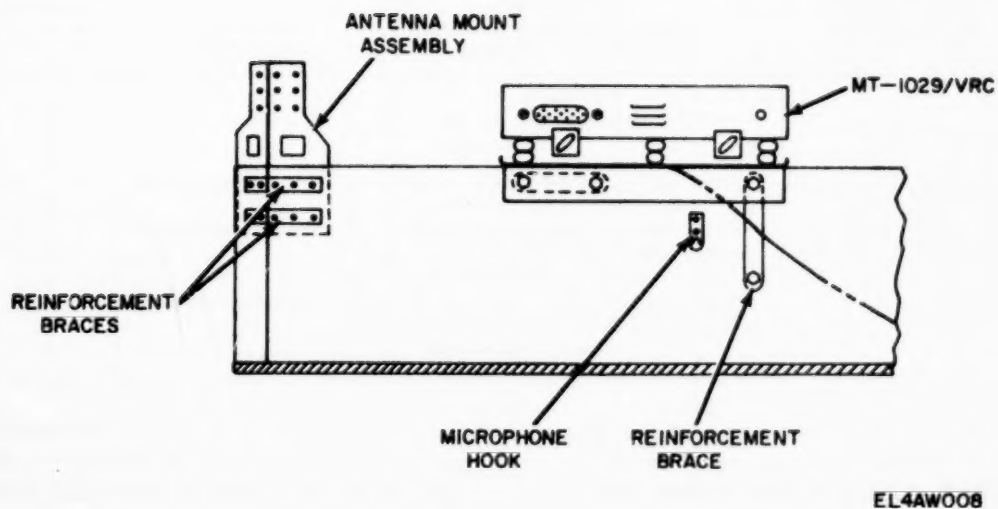


Figure 2-6. Installation of audio accessories support kit.



CHAPTER 3

MAINTENANCE INSTRUCTIONS

Section I. OPERATOR'S MAINTENANCE

3-1. Scope of Operator's Maintenance

Operator's maintenance consists of cleaning and inspections. The person performing maintenance checks will observe the following instructions:

3-2. Material required

- Cleaning cloth.
- Trichloroethane.
- Soft brush.

3-3. Preventive Maintenance

Preventive maintenance is the systematic care, inspection and servicing to assure that the equipment is serviceable and to reduce downtime.

a. *Systematic Care.* The procedure given in paragraphs 3-4 and table 3-1 are essential to the upkeep of the installation kit items. Cleaning operations (para 3-5) should be performed daily. When the equipment is not used daily, cleaning operations shall be per-

formed before operation, after extended use, or once a week when equipment is kept in a standby condition.

b. *Preventive Maintenance Service and Inspection.* The preventive maintenance checks and services (table 3-1) outlines inspections to be made at specific intervals. These inspections are made to maintain the equipment in good general (physical) and operating condition. Records and reports of these inspections must be made in accordance with TM 38-750.

3-4. Maintenance Checks and Services Periods

Table 3-1 specifies checks and services that must be accomplished daily or under special circumstances listed below.

- When equipment is initially installed.
- When equipment is reinstalled after relocation.
- At least once a week if the equipment is maintained in a standby condition.

Table 3-1. Daily Preventive Maintenance Checks and Services Chart

NOTE: THE CHECKS IN THE "INTERVAL" COLUMN ARE TO BE PERFORMED IN THE ORDER LISTED

B—BEFORE OPERATION

W—WEEKLY

ITEM NO.	INTERVAL		ITEM TO BE INSPECTED	PROCEDURES CHECK AND HAVE REPAIRED OR ADJUSTED AS NECESSARY	FOR READINESS REPORTING EQUIPMENT IS NOT READY AVAILABLE IF:
	B	W			
1	X	X	Exterior surfaces	WARNING Do not clean equipment while power is on. Clean exterior surfaces of the components that make up the system.	
2	X	X	Intercabling and connectors	Check all interconnecting cables and connectors for cracks and breaks. Tighten all connectors.	
3	X	X	Equipment mounting	Check to insure that all components are securely mounted and that they are firmly bolted in place.	

3-5. Cleaning

Inspect all components of the installation kit. All exterior surfaces must be free of dust, grease, and fungus.

- Remove dust and dirt with a clean soft cloth.

WARNING

The fumes of TRICHLOROETHANE are toxic. Provide thorough ventilation whenever it is used; avoid prolonged or repeated breathing of vapor. Do not use near an open flame or hot surface; trichloroethane is nonflamma-

ble but heat converts the fumes to a highly toxic phosgene gas the inhalation of which could result in serious injury or death. Prolonged or repeated skin contact with trichloroethane can cause skin inflammation. When necessary, use gloves, sleeves and aprons which the solvent cannot penetrate.

- Remove grease, ground-in dirt and fungus from the equipment using a cloth dampened (not wet) with trichloroethane.

- c. Clean cables with a soft cloth. If necessary use a dampened cloth with a mild soap to remove dirt from

cables.

Section II. ORGANIZATIONAL MAINTENANCE

3-6. Scope of Organizational Maintenance

This section contains instructions covering organizational maintenance of the kit. Organizational maintenance includes:

- Quarterly preventive maintenance.
- Touchup painting.
- Cable troubleshooting and repair.

3-7. Tools and Materials Required

- Tool Kit, Electronic Equipment TK-101/G.
- Multimeter AN/URM-105.
- Cleaning cloth.

d. Trichloroethane.

3-8. Quarterly Preventive Maintenance

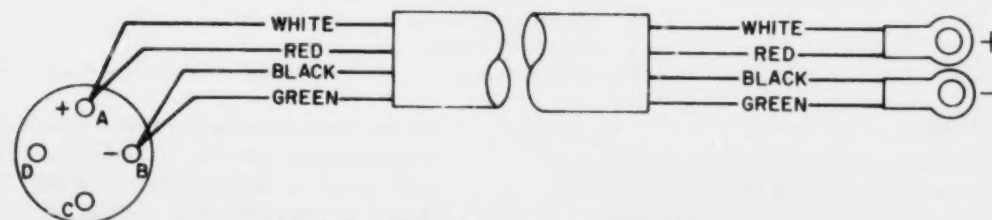
Quarterly maintenance will be scheduled in accordance with the requirements of TM 38-750. All deficiencies will be noted and recorded, and those not corrected during inspection and service will be reported immediately to a higher maintenance category by use of forms and procedures specified in TM 38-750. Daily services constitute a part of the quarterly maintenance checks and must be performed concurrently. Perform all checks and services as specified in table 3-2.

Table 3-2. Quarterly Preventive Maintenance Checks and Services Chart

NOTE: THE CHECKS IN THE "INTERVAL" COLUMN ARE TO BE PERFORMED IN THE ORDER LISTED

Q-QUARTERLY

ITEM NO.	INTERVAL Q	ITEM TO BE INSPECTED	PROCEDURES CHECK AND HAVE REPAIRED OR ADJUSTED AS NECESSARY	FOR READINESS REPORTING EQUIPMENT IS NOT READY/AVAILABLE IF:
1	X	Installation	Check to see that the equipment is properly installed.	
2	X	Preservation	Check all equipment surfaces for evidence of fungus, rust, corrosion. Clean fungus areas, remove rust and corrosion, and spot paint bare spots.	
3	X	Publications	Check to see that all publications are complete, serviceable, and current.	
4	X	Modifications	Check to determine whether new applicable MWO's have been published. All URGENT MWO's must be applied immediately. All NORMAL MWO's must be scheduled.	



CABLE CX-4720/VRC WIRING DIAGRAM

EL4AW009

Figure 3-1. Cable assembly CX-4720/VRC, wiring diagram.

CAUTION

Power cable must be disconnected from battery before making tests using Multimeter AN/VRM-105, to prevent damage to meter.

b. Techniques to locate shorted or open cable conductors vary according to the length and accessibility of the cable. The installation kit cables are short and readily accessible; therefore, they should be checked from connector to connector. If the meter indicates zero or low (less than 1 or 2 ohms), the wire has continuity. Shorted wires are located by placing the ohmmeter leads on pins or socket that are shown on the cable schematic diagram to have no connection. For Cable Assembly CX-4720/VRC, disconnect the cable from the battery and disconnect the wires from the terminal lugs. Measure continuity of each wire. If a wire is found defective, replace the entire cable.

c. When an open or short is located in a cable, flex segments of the cable along its length while the ohmmeter is in the circuit. When the ohmmeter shows intermittent short or open in unison with the cable segment being flexed, the area of the cable fault has been located. Replace faulty cable.

3-9. Touchup Painting

When the finish on any metal parts of the equipment has been scarred, damaged, or corroded, lightly sand it with fine sandpaper and clean the surface down to bare metal. Refer to the applicable cleaning and refinishing practices specified in TB 43-0118.

3-10. Cable Maintenance

(fig. 3-1)

a. Cable maintenance is divided into two steps: troubleshooting and repair. Troubleshooting locates the cable defect to be repaired. The Repair step corrects the defect. Possible defects to look out for are open cable conductors, cable conductors that are shorted together, broken or misaligned connector pins, and broken or cracked connector shells. Except for the shorted or open conductors, other defects are found by close visual inspection of the cable assembly. The shorted or open conductors must be located by use of Multimeter AN/URM-105.

APPENDIX A

REFERENCES

-
- | | |
|---------------------------|---|
| DA PAM 310-4 | Index of Technical Manuals, Technical Bulletins, Supply Manuals (Types 7, 8 and 9), Supply Bulletins and Lubrication Orders. |
| DA PAM 310-7 | U.S. Army Equipment Index of Modification Work Orders |
| SB 11-131 | Vehicular Radio Sets and Authorized Installation |
| TB 43-0118 | Field Instructions for Painting and Preserving Electronics Command Equipment, Including Camouflage Pattern Painting of Electrical Equipment Shelters. |
| TM 9-2320-218-10 | Operator's Manual for Truck, Utility: ¼ Ton, 4X4, M151, M151A1 and M151A2, Truck, Utility: ¼-ton, 4X4, M151A1C, M825; 106-MM Recoiless Rifle; Truck, Ambulance, Frontline: ¼-ton, 4X4, M718, M718A |
| TM 11-5820-401-12 | Operator's and Organizational Maintenance Manual (Including Repair Parts and Special Tools Lists) Radio Sets AN/VRC-12
(5820-00-223-7412), AN/VRC-43
(5820-00-223-7415), AN/VRC-44
(5820-00-223-7417), AN/VRC-45
(5820-00-223-7418), AN/VRC-46
(5820-00-223-7433), AN/VRC-47
(5820-00-223-7434), AN/VRC-48
(5820-00-223-7435), AN/VRC-49
(5820-00-223-7437), AN/VRC-54
(5820-00-223-7567), and AN/VRC-55
(5820-00-402-2265); Mounting MT-1029/VRC
(5820-00-893-1323) and Mounting MT-1898/VRC
(5820-00-893-1324); Antenna AT-912/VRC
(5820-00-897-6357); Control, Frequency
Selector C-2742/VRC (5820-00-892-3343)
and Control, Radio Set C-2299/VRC
(5820-00-892-3340) |
| TM 11-5965-268-50 | Depot Maintenance Manuals: Microphones T-30, T-45, T-50, M-29/U, and M-80(*)/GR. |
| TM 11-5965-260-24P | Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools Lists (Including Depot Maintenance Repair Parts and Special Tools): Headset, Electrical H-104A/U (NSN 5965-892-1010). |
| TM 11-6625-203-12 | Operator and Organizational Maintenance: Multimeter AN/URM-105 and AN/URM-105C Including Multimeter ME-77/U and ME-77C/U |
| TM 38-750 | The Army Maintenance Management System (TAMMS). |
| TM 750-244-2 | Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command). |

APPENDIX B

COMPONENTS OF END ITEM LIST

Section I. INTRODUCTION

B-1. Scope

This appendix lists integral components of and basic issue items for the MK-1234/GRC to help you inventory items required for safe and efficient operation.

B-2. General

This Components of End Item List is divided into the following sections:

a. Section II. Integral Components of the End Item. These items, when assembled, comprise the MK-1234/GRC and must accompany it whenever it is transferred or turned in. The illustrations will help you identify these items.

b. Section III. Basic Issue Items. Not applicable.

B-3. Explanation of Columns

a. Illustration. This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item number.* The number used to identify item called out in the illustration.

b. National Stock Number. Indicates the National stock number assigned to the item and which will be used for requisitioning.

c. Description. Indicates the Federal item name and, if required, a minimum description to identify the item. The part number indicates the primary number used by the manufacturer, which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items. Following the part number, the Federal Supply Code for Manufacturers (FSCM) is shown in parentheses.

d. Location. The physical location of each item listed is given in this column. The lists are designed to inventory all items in one area of the major item before moving on to an adjacent area.

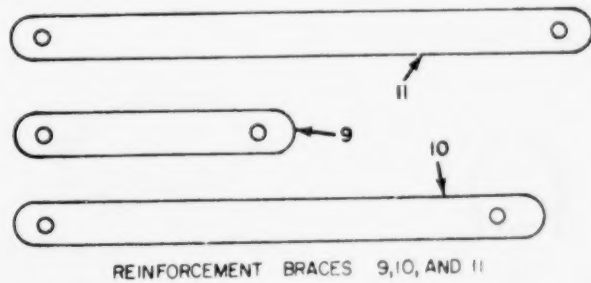
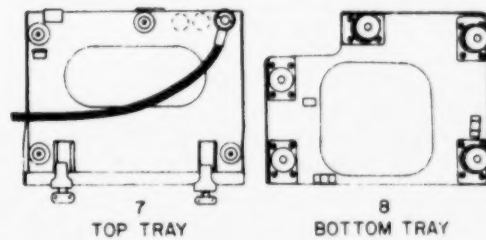
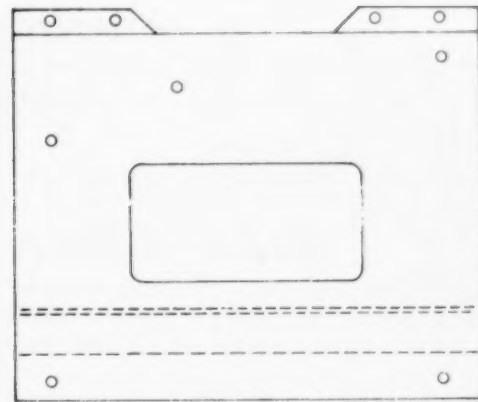
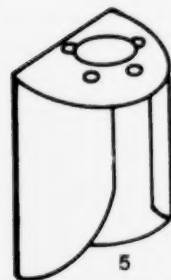
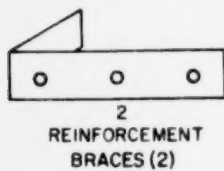
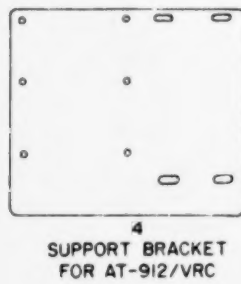
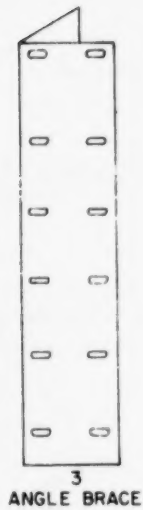
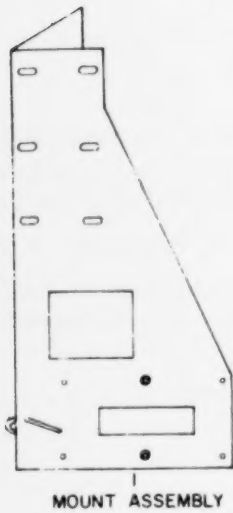
e. Usable on Code. Not applicable.

f. Quantity Required (Qty Reqd). This column lists the quantity of each item required for a complete major item.

g. Quantity. This column is left blank for use during an inventory. Under the Rcvd column, list the quantity you actually receive on your major item. The Date columns are for your use when you inventory the major item.

SECTION II INTEGRAL COMPONENTS OF END ITEM

(1) ILLUSTRATION		(2) NATIONAL STOCK NUMBER	(3) PART NUMBER FSCM	(4) DESCRIPTION	(5) LOCATION	(6) USABLE ON CODE	(7) QTY REQD	(8) QUANTITY			
(A) FIG NO.	(B) ITEM NO.							RCVD	DATE	DATE	DATE
B-1	1	5820-00-930-3876	SC-D-446058	Antenna Mount Assembly			1				
B-1	21	5985-00-930-7223	SC-C-446046	Antenna Tip Assembly (for AT-1095/VRC)			1				
B-1	16	5820-00-856-9165	PPL1843	Audio Accessories Support Kit			1				
B-1	17	5995-00-823-2989	SM-D-415563	Cable Assembly, Radio Fre- quency CO-1773B/U (6 ft)			1				
B-1	12	5995-00-823-2726	SM-D-415550	Cable Assembly, Special Purpose, Electrical CX-4720/VRC (12 ft)			1				
B-1	18	5995-00-823-2821	SM-D-415552	Cable Assembly, Special Purpose Electrical CX-4722/VRC (6 ft)			1				
B-1	22	5820-00-752-5738	PPL914	Clamp Strap Kit			2				
B-1	13		MS35490-16	Oromet, Rubber, Split			2				
B-1	15	5820-00-856-7819	SC-D-75288	Guard Assembly			1				
B-1	19		MIL-E-55119	Headset, Electrical H-140B/U			1				
B-1	20	5965-00-179-7762	MIL-E-55119	Microphone, Dynamic M-80C/U			1				
1-1			MIL-M-55167	Mounting MT-1029/VRC			1				
B-1	23	5820-00-875-0905	SC-C-48689	Reflector Plate Assembly			1				
B-1	6		SC-DL-48676	Support Bracket			1				
B-1	14	5940-00-636-5761	J16	Terminal Lug (Sherman Mfg. Co.)			2				
B-1	5	5820-00-740-1780	SC-D-189023	Support Assembly			1				



EL4AW010

Figure B-1. ① Components of End Item (sheet 1 of 2).

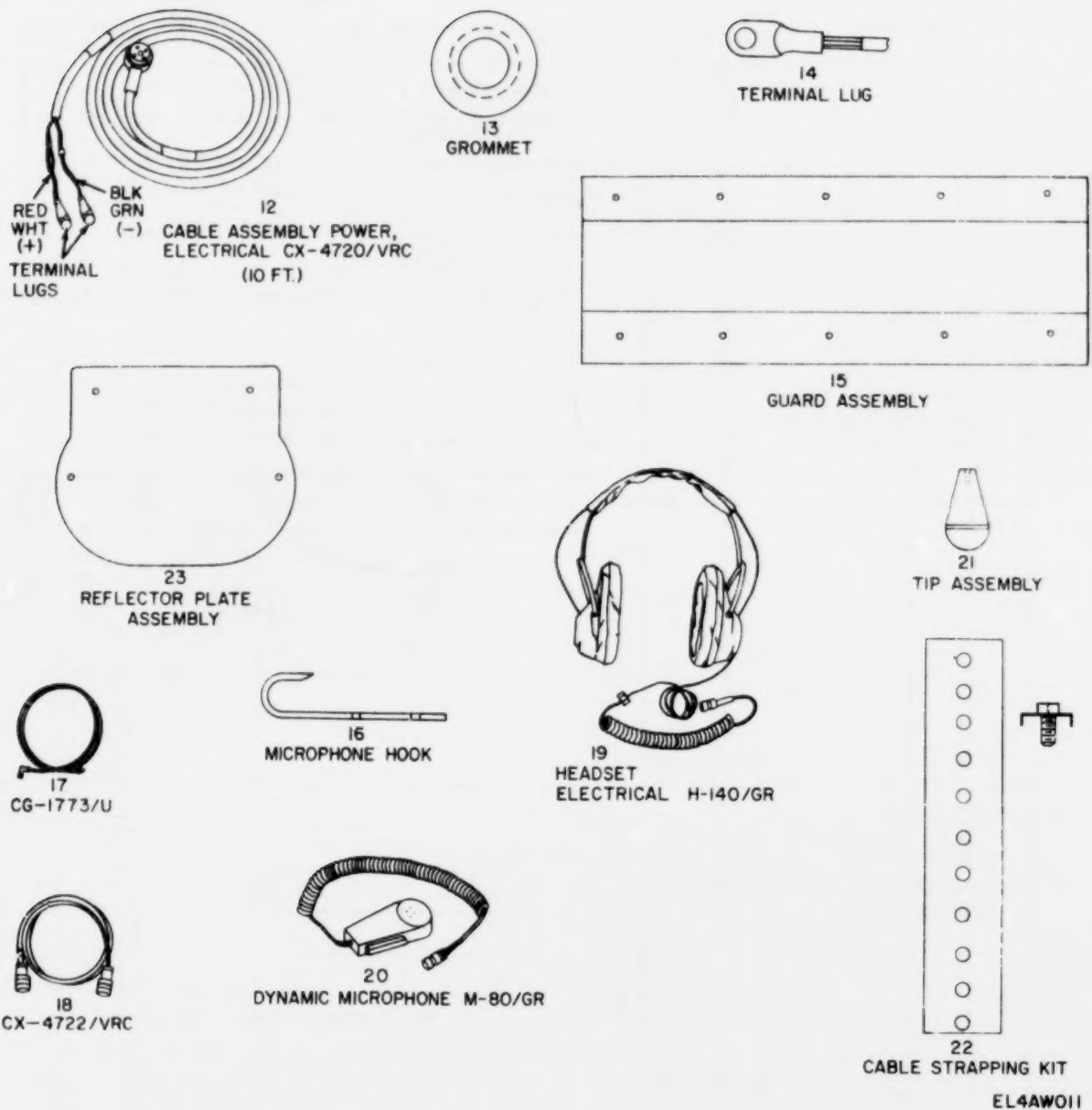


Figure B-1. ② Components of End Item (sheet 2 of 2).

APPENDIX C

ADDITIONAL AUTHORIZATION LIST

Section I. INTRODUCTION

C-1. Scope

This appendix lists additional items you are authorized for the support of the MK-1234/GRC.

C-2. General

This list identifies items that do not have to accompany the MK-1234/GRC and that do not have to

be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

C-3. Explanation of Listing

National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support this equipment.

SECTION II ADDITIONAL AUTHORIZATION LIST

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION PART NUMBER AND FSCM	(3) UNIT OF MEAS USABLE ON CODE	(4) QTY AUTH
5133-00-889-1905	Drill Bit, 11/32" with 1/4" Shank 0000751 #1348	EA	1
5133-00-889-1975	Drill Bit, 9/32" with 1/4" Shank 0000751 #1348	EA	1
6230-00-239-3518	Light, Drop SC-C539496 80063	EA	1

APPENDIX D

MAINTENANCE ALLOCATION

Section I. INTRODUCTION

D-1. General

This appendix provides a summary of the maintenance operations for MK-1234/GRC. It authorizes categories of maintenance for specific maintenance functions on repairable items and components and the tools and equipment required to perform each function. This appendix may be used as an aid in planning maintenance operations.

D-2. Maintenance Function

Maintenance functions will be limited to and defined as follows:

a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

b. Test. To verify serviceability and to detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.

d. Adjust. To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.

e. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. Install. The act of emplacing, seating, or fixing into position an item, part, module (component or assembly) in a manner to allow the proper functioning of the equipment or system.

h. Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

i. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace)

or other maintenance actions (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

j. Overhaul. That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e., DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipments/components.

D-3. Column Entries

a. Column 1, Group Number. Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

b. Column 2, Component/Assembly. Column 2 contains the noun names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. Column 3, Maintenance Functions. Column 3 lists the functions to be performed on the item listed in column 2. When items are listed without maintenance functions, it is solely for the purpose of having the group numbers in the MAC and RPSTL coincide.

d. Column 4, Maintenance Category. Column 4 specifies, by the listing of a "worktime" figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate "worktime" figures will be shown for each

category. The number of task-hours specified by the "worktime" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. Subcolumns of column 4 are as follows:

- C-Operator/Crew
- O-Organizational
- F-Direct Support
- H-General Support
- D-Depot

e. Column 5, Tools and Equipment. Column 5 specifies by code, those common tool sets (not individual tools) and special tools, test, and support equipment required to perform the designated function.

f. Column 6, Remarks. Column 6 contains an alphabetic code which leads to the remark in section IV, Remarks, which is pertinent to the item opposite the particular code.

D-4. Tool and Test Equipment Requirements (sec III)

a. Tool or Test Equipment Reference Code. The

numbers in this column coincide with the numbers used in the tools and equipment column of the MAC. The numbers indicate the applicable tool or test equipment for the maintenance functions.

b. Maintenance Category. The codes in this column indicate the maintenance category allocated the tool or test equipment.

c. Nomenclature. This column lists the noun name and nomenclature of the tools and test equipment required to perform the maintenance functions.

d. National/NATO Stock Number. This column lists the National/NATO stock number of the specific tool or test equipment.

e. Tool Number. This column lists the manufacturer's part number of the tool followed by the Federal Supply Code for manufacturers (5-digit) in parentheses.

D-5. Remarks (sec IV)

a. Reference Code. This code refers to the appropriate item in section II, column 6.

b. Remarks. This column provides the required explanatory information necessary to clarify items appearing in section II.

SECTION II MAINTENANCE ALLOCATION CHART
FOR

INSTALLATION KIT, ELECTRONIC EQUIPMENT MX-1234/GRC

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQPT	(6) REMARKS
			C	O	F	H	D		
00	Installation Kit, Electronic Equipment MX-1234/G	Install Inspect Service Repair Replace	0.25	1.0 0.75 1.0	1.0			3 1 1 1	A
01	Mounting MT-1029/VRC								B
02	Headset H-140(*)/U								C
03	Cable Assembly CG-1773/U	Install Test Replace		0.25 0.25 0.25				1 2 1	
04	Cable Assembly CX-4720/VRC	Install Test Replace		0.25 0.25 0.25				1 2 1	
05	Cable Assembly CX-4722/VRC	Install Test Replace		0.25 0.25 0.25				1 2 1	

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS
FOR

INSTALLATION KIT, ELECTRONIC EQUIPMENT MK-1234/GRC

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
1	0	Tool Kit, Electronic Equipment TK-101/G 80058	5180-00-064-5178	
2	0	Multimeter AM/URM-105 80058	6625-00-581-2036	
3	F	Tool Kit, Electronic Equipment TK-100/G 80058	5180-00-605-0079	

SECTION IV. REMARKS

REFERENCE CODE	REMARKS
A	Repair by Component Replacement
B	Refer to TM 11-5820-401-12
C	Refer to TM 11-5963-206-13P

APPENDIX E

ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

E-1. Scope

This appendix lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational, direct support, and general support maintenance of Installation Kit, Electronic Equipment MK-1234/GRC. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

E-2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. *Section II. Repair Parts List.* A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence.

b. *Section III. Special Tools List.* Not applicable.

c. *Section IV. National Stock Number and Part Number Index.* A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list, in alphanumeric sequence, of all part numbers appearing in the listing. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

E-3. Explanation of Columns

a. *Illustration.* This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item number.* The number used to identify item called out in the illustration.

b. *Source, Maintenance, and Recoverability (SMR) Codes.*

(1) *Source code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition
PA—	Item procured and stocked for anticipated or known usage.
XD—	A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source-coded above, except those coded XA and aircraft support items as restricted by AR 700-42.

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate the following level of maintenance:

Code	Application/Explanation
O—	Support item is removed, replaced, used at the organizational level.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	Application/Explanation
F—	The lowest maintenance level capable of complete repair of the support item is the direct support level.
Z—	Nonreparable. No repair is authorized.

(3) *Recoverability code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability Codes	Definition
F—	Reparable item. When uneconomically repairable, condemn and dispose at the direct support level.

Recoverability

Codes

Definition

Z— Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.

H— Reparable item. When uneconomically reparable, condemn and dispose at the general support level.

c. National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock-numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc.). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

E-4. Special Information

National stock numbers (NSN's) that are missing from P source coded items have been applied for and will be added to this TM by future change/revision when they are entered in the Army Master Data File (AMDF). Until the NSN's are established and published, submit exception requisitions to: Commander, US Army Electronics Command, ATTN: DRSEL-MM, Fort Monmouth, NJ 07703 for the part required to support your equipment.

E-5. How to Locate Repair Parts

a. When National stock or part number is unknown:

(1) *First.* Using the table of contents, determine the functional group within which the item belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same group.

(2) *Second.* Find the illustration covering the functional group to which the item belongs.

(3) *Third.* Identify the item on the illustration and note the illustration figure and item number of the item.

(4) *Fourth.* Using the Repair Parts Listing, find the figure and item number noted on the illustration.

b. When National stock number or part number is known.

(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence, followed by a list of part numbers in alphanumeric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* After finding the figure and item number, locate the figure and item number in the repair parts list.

E-6. Abbreviations

Not applicable.

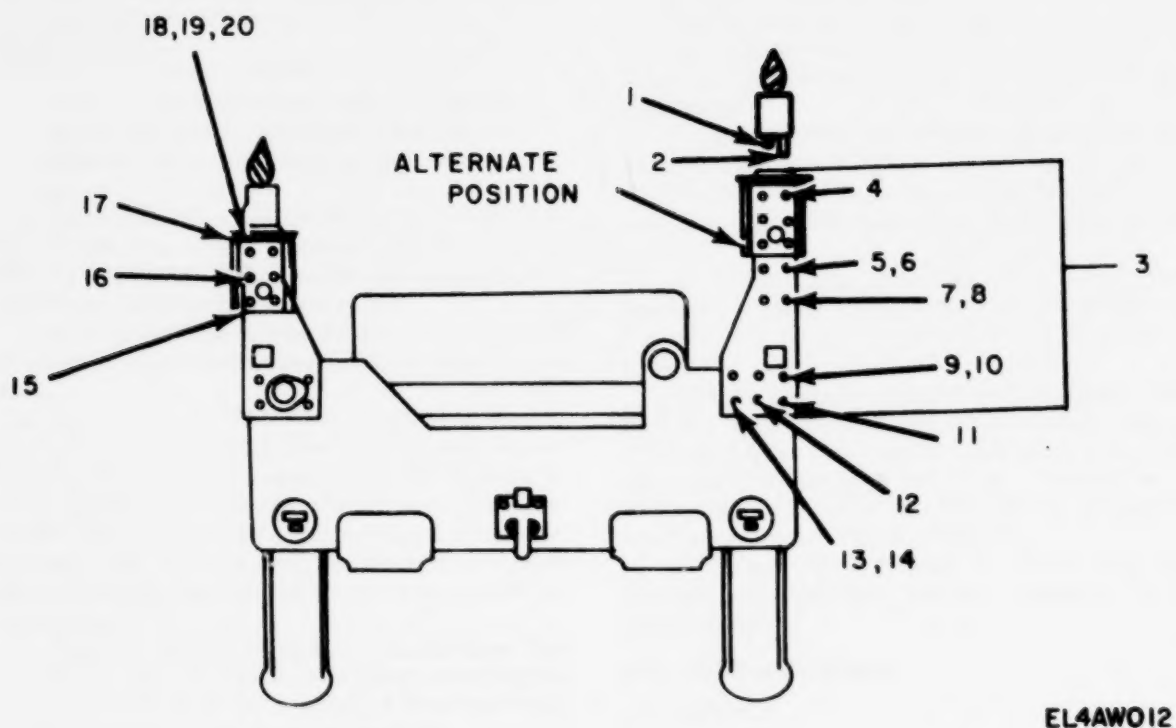


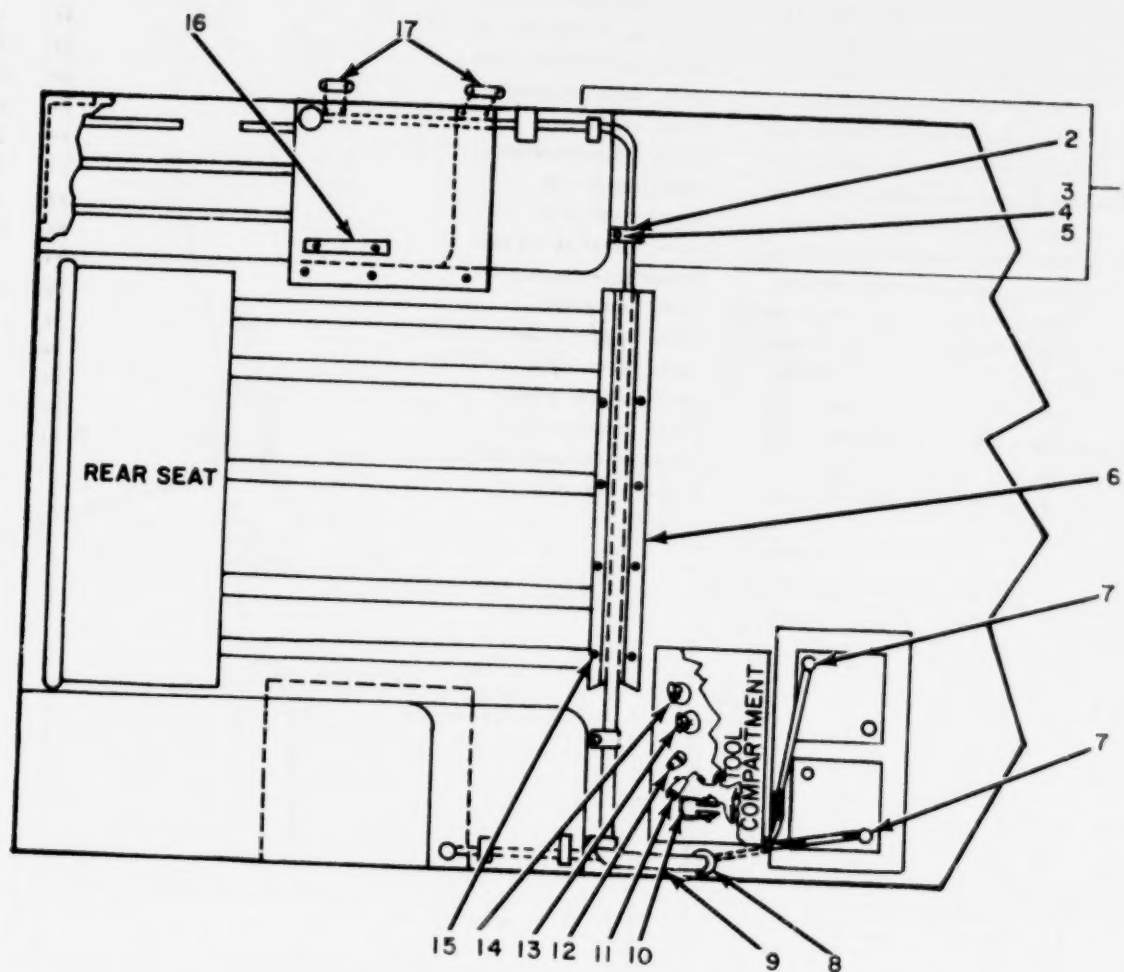
Figure E-1. Installation Kit, Electronic Equipment MK-1234/GRC, Rear View.

SECTION II

REPAIR PARTS LIST

TM11-2300-351-144P-22

ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a)	(b)	SMR	NATIONAL	PART	FSCM	DESCRIPTION	U/M	QTY
FIG	ITEM	CODE	STOCK	NUMBER				INC
NO.	NO.		NUMBER					IN
						USABLE ON CODE		UNIT
						GROUP 00 INSTALLATION KIT, ELECTRONIC EQUIPMENT HK-1234/GRC		
E-1	1	PAOZZ	5995-00-823-2989	CG-17738/U	80058	CABLE ASSEMBLY	EA	1
E-1	2	PAOZZ	5995-00-823-2821	CX-4722A-VRC	80058	CABLE ASSEMBLY	EA	1
E-1	3	PAOZZ	5820-00-930-3876	SC-D-446058	80063	ANTENNA MOUNT ASSY	EA	1
E-1	4	PAOZZ	5305-00-225-9091	MS90726-36	96906	SCREW,CAP,HEX HEAD	EA	8
E-1	5	PAOZZ	5305-00-959-2698	MS35191-309	96906	SCREW,MACHINE,FL HD	EA	4
E-1	6	PAOZZ	5305-00-993-1851	MS35207-267	96906	SCREW,MACHINE,PANHD	EA	2
E-1	7	PAOZZ	5310-00-880-7746	MS51968-5	96906	NUT,PLAIN,HEXAGON	EA	12
E-1	8	PAOZZ	5310-00-889-2527	MS45904-72	96906	WASHER,LOCK	EA	24
E-1	9	PAOZZ	5310-00-934-9751	MS35650-302	96906	NUT,PLAIN,HEXAGON	EA	2
E-1	10	PAOZZ	5310-00-080-9786	MS45904-60	96906	WASHER,LOCK	EA	2
E-1	11	PAOZZ	5310-00-809-8546	MS27183-8	96906	WASHER,FLAT	EA	2
E-1	12	PAOZZ	5305-00-068-0506	MS90726-6	96906	SCREW,CAP,HEX HEAD	EA	16
E-1	13	PAOZZ	5310-00-768-0318	MS51968-2	96906	NUT,PLAIN,HEXAGON	EA	16
E-1	14	PAOZZ	5310-00-889-2528	MS45904-68	96906	WASHER,LOCK	EA	32
E-1	15	PAOZZ	5820-00-875-0905	SC-C-48689	80063	REPL PLATE ASSY	EA	1
E-1	16	PAOZZ		MS35292-2	96906	SCREW,CAP,HEX HD	EA	2
E-1	17	PAOZZ		SC-DL-48676	80063	SUPPORT BRACKET	EA	1
E-1	18	PAOZZ	5306-00-225-9089	MS90726-34	96906	SCREW,CAP,HEX,HD	EA	8
E-1	19	PAOZZ		MS35690-522	96906	NUT,PLAIN,HEXAGON	EA	8
E-1	20	PAOZZ	5310-00-081-4219	MS27183-12	96906	WASHER,PLAIN	EA	1



EL4AW013

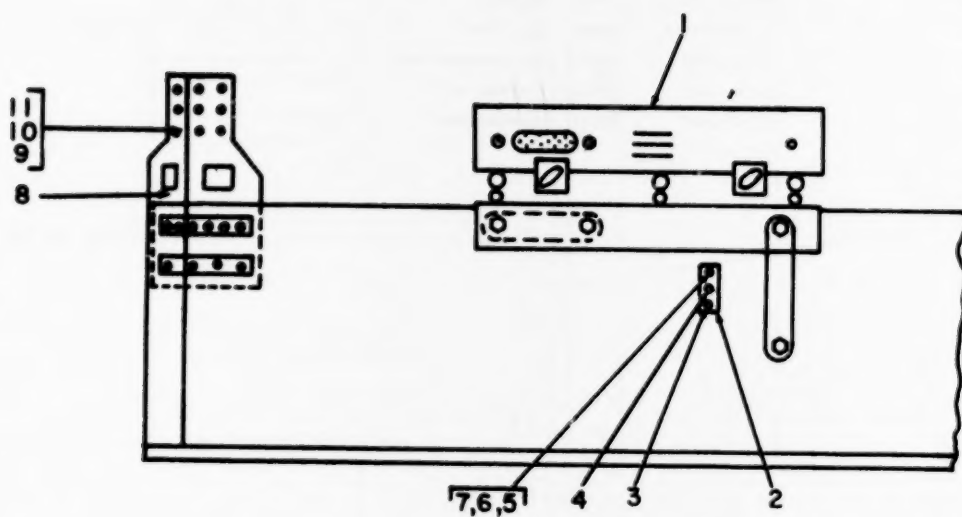
Figure E-2. Installation Kit, Electronic Equipment MK-1234/GRC, Top View.

SECTION II

REPAIR PARTS LIST - CONTINUED

TM11-2300-351-144P-22

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
E-2	1	XDOFF	5820-00-752-5738	PPL-914	80063	CLAMP STRAP KEY	EA	2
E-2	2	PAOZZ	5820-00-783-9035	SCB35513	80063	CLAMP, STRAP	EA	2
E-2	3	PAOZZ		MS35690-422	96906	NUT, PLAIN, HEXAGON	EA	3
E-2	4	PAOZZ	5310-00-821-6269	MS35334-19	96906	WASHER, LOCK, FLAT	EA	12
E-2	5	PAOZZ		SCC-279924	80063	CLP STRAP FSTNR	EA	12
E-2	6	PAOZZ	5820-00-856-7819	SC-D-75288	80063	GUARD ASSY	EA	12
E-2	7	PAOZZ	5940-00-636-5761	316	77840	TERMINAL, LUG	EA	1
E-2	8	PAOZZ		MS35490-16	96906	GROMMET, RBR, SPLIT	EA	2
E-2	9	PAOZZ	5995-00-823-2726	CX-4720-VRC	80058	CABLE ASSEMBLY	EA	2
E-2	10	PAOFH		H-1408-U	80058	HEADSET, ELECTRICAL	EA	1
E-2	11	PAOZZ	5965-00-179-7762	H-80C-U	80058	MICROPHONE, DYNAMIC	EA	1
E-2	12	PAOZZ	5985-00-930-7223	SC-C-446046	80063	ANTENNA TIP ASSY	EA	1
E-2	13	XDOZZ		SC-B-49729-2	80063	BAG, CLOTH	EA	1
E-2	14	XDOZZ		SC-B-49729-3	80063	BAG, CLOTH	EA	1
E-2	15	PAOZZ		MS24637-34	96906	SCREEN, TPG, PAN HEAD	EA	1
E-2	16	XDOZZ		SC-B-48680	80063	REINFORCEMENT	EA	10
E-2	17	XDOZZ		SC-B-49681	80063	REINFORCEMENT	EA	1
							EA	2



EL4AW014

Figure E-3. Installation Kit, Electronic Equipment MK-1234/GRC, Roadside View.

SECTION II

REPAIR PARTS LIST

TND1-2300-351-1447-02

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO.	(B) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	USABLE ON CODE	QTY INC IN UNIT
E-3	1	XDOFH		NY-1029-VRC	80058	MOUNTING		EA 1
E-3	2	XDOFF	5820-00-856-9165	PPL-1843	80063	SUPPORT KIT, AUDIO		EA 1
E-3	3	PAOZZ	5820-00-537-7988	SC-A-5274	80063	HOOK, STEEL		EA 2
E-3	4	PAOZZ		MS24637-25	96906	SCREW, PAN HD, SH NET		EA 5
E-3	5	PAOZZ		MS35223-47	96906	SCREW, MACH, PAN HD		EA 3
E-3	6	PAOZZ	5310-00-061-0004	MS45904-57	96906	WASHER, LOCK		EA 3
E-3	7	PAOZZ		MS45649-82	96906	NUT, PLAIN, HEXAGON		EA 3
E-3	8	PAOZZ	5820-00-740-1780	SC-D-189023	80063	SUPPORT ASSY		EA 1
E-3	9	PAOZZ		MS35308-6	96906	SCREW, CAP, HEX HEAD		EA 6
E-3	10	PAOZZ		MS35690-430	96906	NUT, PLAIN, HEXAGON		EA 6
E-3	11	PAOZZ	5310-00-889-2528	MS45904-68	96906	WASHER, LOCK		EA 12

SECTION IV

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

TM11-2300-351-14&P-22

NOTE: Latest National Stock Number and Part Number Assignments Appear at the End of the Index.

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5310-00-061-0004	E3	6	5995-00-823-2726	E2	9
5305-00-068-0506	E1	12	5310-00-880-7746	E1	7
5310-00-080-9786	E1	10	5310-00-889-2527	E1	8
5310-00-081-4219	E1	20	5310-00-889-2528	E1	14
5306-00-225-9089	E1	18	5310-00-889-2528	E3	11
5305-00-225-9091	E1	4	5820-00-930-3876	E1	3
5940-00-636-5761	E2	7	5985-00-930-7223	E2	12
5310-00-768-0319	E1	13	5310-00-934-9751	E1	9
5820-00-783-9035	E2	2	5305-00-959-2698	E1	5
5310-00-809-8546	E1	11	5305-00-993-1851	E1	6
5310-00-821-6269	E2	4			

PART NUMBER	FSCN	FIG. NO.	ITEM NO.	PART NUMBER	FSCN	FIG. NO.	ITEM NO.
CG-17738/U	80058	E1	2	MS90726-36	96906	E1	4
CX-4720-VRC	80058	E2	9	MS90726-6	96906	E1	12
CX-4722A-VRC	80058	E1	1	MT-1029-VRC	80058	E3	1
H-140B-U	80058	E2	10	PPL-1843	80063	E3	2
H-80C-U	80058	E2	11				
MS24637-34	96906	E2	15				
MS27183-12	96906	E1	20				
MS27183-8	96906	E1	11	PPL-914	80063	E2	1
MS35191-309	96906	E1	5				
MS35207-267	96906	E1	6				
MS35223-47	96906	E3	5				
MS35292-2	96906	E1	16				
MS35308-6	96906	E3	9	SC-A-5276	80063	E3	3
MS35490-16	96906	E2	8	SC-B-48680	80063	E2	16
MS35490-302	96906	E1	9	SC-B-48681	80063	E2	17
MS35490-430	96906	E3	10	SC-B-49729-2	80063	E2	13
MS35490-522	96906	E1	19	SC-B-49729-3	80063	E2	14
MS45904-60	96906	E1	10	SC-C-446046	80063	E2	12
MS45904-68	96906	E1	14	SC-C-48689	80063	E1	15
MS45904-68	96906	E3	11	SC-D-189023	80063	E3	8
MS45904-72	96906	E1	8	SC-D-446058	80063	E1	3
MS51968-2	96906	E1	13	SC-D-75288	80063	E2	6
MS51968-3	96906	E1	7	SC-DL-48676	80063	E1	17
MS90726-34	96906	E1	18	316	77860	E2	7

LATEST NATIONAL STOCK NUMBER ASSIGNMENTS

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5965-00-179-7762	E2	11	5995-00-823-2989	E1	1
5820-00-537-7988	E3	3	5820-00-856-7819	E2	6
5820-00-740-1780	E3	8	5820-00-856-9165	E3	2
5820-00-752-5738	E2	1	5820-00-875-0905	E1	15
5995-00-823-2821	E1	2			

LATEST PART NUMBER ASSIGNMENTS

PART NUMBER	FSCN	FIG. NO.	ITEM NO.	PART NUMBER	FSCN	FIG. NO.	ITEM NO.
MS24637-25	96906	E3	4	MS45904-57	96906	E3	6
MS35334-19	96906	E2	4	SC835513	80063	E2	2
MS35690-422	96906	E2	3	SCC279924	80063	E2	5
MS45649-82	96906	E3	7				

APPENDIX F

EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

F-1. Scope

This appendix lists expendable supplies and materials you will need to operate and maintain the MK-1234/GRC. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

F-2. Explanation of Columns

a. *Column 1—Item Number.* This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use cleaning compound, item 5, App. D").

b. *Column 2—Level.* This column identifies the lowest level of maintenance that requires the listed item.

- C—Operator/Crew.
- O—Organizational Maintenance
- F—Direct Support Maintenance

H—General Support Maintenance

c. *Column 3—National Stock Number.* This is the National stock number assigned to the item; use it to request or requisition the item.

d. *Column 4—Description.* Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the part number followed by the Federal Supply Code for Manufacturer (FSCM) in parentheses, if applicable.

e. *Column 5—Unit of Measure (U/M).* Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

SECTION II EXPENDABLE SUPPLIES AND MATERIALS LIST

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION PART NO. AND FSCM	(5) UNIT OF MEAS
1	0	5340-00-906-3666	Brush, Soft Bristled, 153350, 01099	EA
2	0	8305-00-205-3496	Cloth, Cotton Cheesecloth, CCCC 440, 81348	EA
3	0	6810-00-664-0273	Fluid, Cleaning (Trichloroethane) 07620, 18845	EA



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Stateside Army Depot
ATTN: AMSTA-US
Stateside, N.J. 07703

DATE 10 July 1975

PUBLICATION NUMBER

TM 11-5840-340-12

DATE

23 Jan 74

TITLE

Radar Set AN/S-76

BE EXACT... PIN-POINT WHERE IT IS

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
2-25	2-28		
3-10	3-3		3-1
5-6	5-8		
		FO3	

Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°.

REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation.

Item 5, Function column. Change "2 db" to "3db."

REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.

Add new step f.1 to read, "Replace cover plate removed in step e.1, above."

REASON: To replace the cover plate.

Zone C 3. On J1-2, change "+24 VDC to "+5 VDC."

REASON: This is the output line of the 5 VDC power supply. + 24 VDC is the input voltage.

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SSG I. M. DeSpirito 999-1776

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HISA 1686-75

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RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL MANUALS



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Official:

J. C. PENNINGTON

Brigadier General, United States Army
The Adjutant General

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Chief of Staff

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